Keypad mode is used to operate the drive completely from the keypad. This is the default setting of the drive and this procedure is written as the drive would be delivered from the factory.

1. Before power-up ensure:
a. The drive enable signal is not given, terminal B4 is open
b. The motor is connected to the drive (Terminal U, V, W and motor ground)
c. The motor connection is correct for the drive, □ or Y
d. The correct supply voltage is connected to the drive

2. Power up the drive and ensure:
a. The drive displays:

b. The Keypad Mode set-up procedure is followed:

1. Set parameter 1 to 4 for desired frequency and ramp values
2. Set parameter 6 for motor rated current (A)
3. Set parameter 7 for motor rated speed (rpm)
4. Set parameter 8 for motor rated voltage (V)
5. Set parameter 9 for motor rated power factor. If unknown, leave at default setting
6. Set parameter 10 for L3 (Allows access to parameters higher than 10)
7. Follow wiring diagrams as per Figure 1-1 and Figure 1-3

Ready to run
3. Enable and run the drive
a. Close the enable signal (e.g. wire)
b. Press the ⓘ START key

Figure 1-1 Keypad control terminal connections

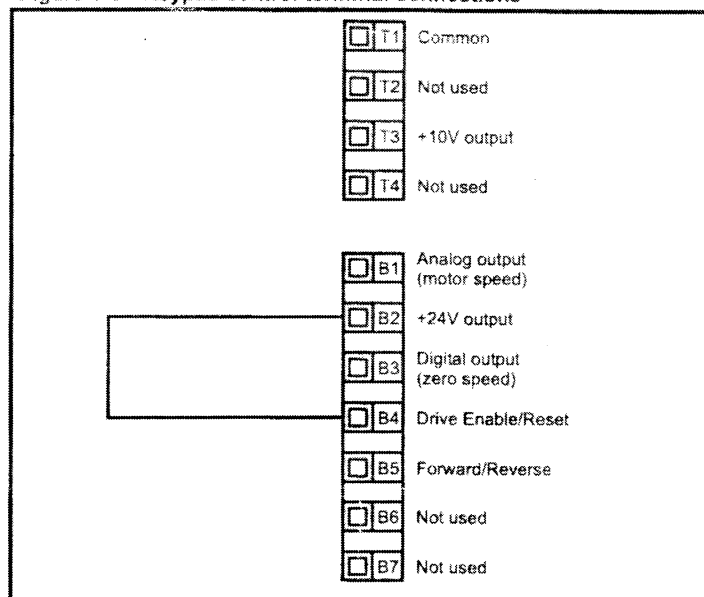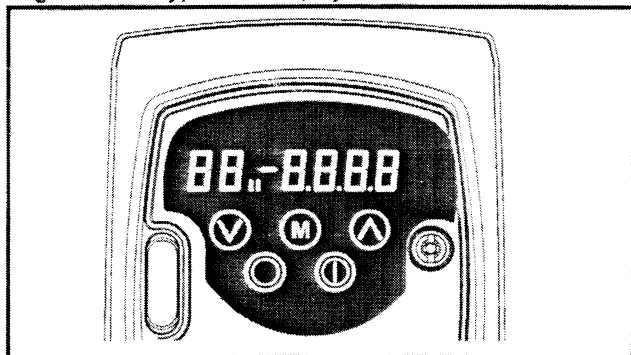| Terminal	Description
T1	Common
T2	Not used
T3	+10V output
T4	Not used
B1	Analog output (motor speed)
B2	+24V output
B3	Digital output (zero speed)
B4	Drive Enable/Reset
B5	Forward/Reverse
B6	Not used
B7	Not used

Figure 1-2 Keypad and display

4. Increasing and decreasing speed
Press the ⓐ UP key to increase the speed of the motor.

Press the ⓥ DOWN key to decrease the speed of the motor.

5. Stopping
Press the ⓢ STOP/RESET key to stop the motor.
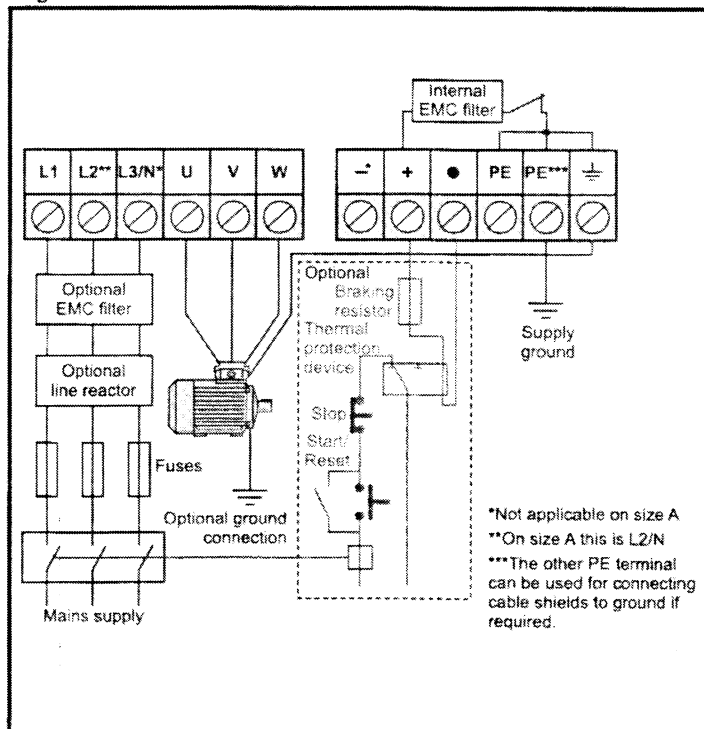Pr **04** *Deceleration rate* is typically set to the time it takes the motor/load to coast to a stop.

The ⓜ MODE key is used to change the mode of operation of the drive. During operation, hold in for 2 seconds and the display will change to Ld showing % Load.

Figure 1-3 Power terminals

| L1 | L2** | L3/N* | U | V | W | −* | + | ● | PE | PE*** | ⏚ |

*Not applicable on size A
**On size A this is L2/N
***The other PE terminal can be used for connecting cable shields to ground if required.

In response to customer feedback, there have been some improvements made to the Commander SK Americas variant.

These changes are intended to improve the 'out of box' performance of the Commander SK.

Changes to the factory settings:

1. **Pr 2.06 = On (S ramp enable)**

2. **Pr 2.07 = 15 s^2 / 100Hz (S ramp acceleration limit)**

3. **Pr 4.13 = 50 (Current controller Kp gain)**

4. **Pr 4.14 = 5 (Current controller Ki gain)**

5. **Pr 5.13 = On (Dynamic V to f select)**

6. **Pr 5.27 = OFF (Enable slip compensation)**

NOTE

These settings will be changed to the default values when defaults are loaded (Pr **29**).